Oracle Client plus ODBC drivers Install
(32 and 64 bit operating systems)

Issue: Districts should download the Oracle Client plus the ODBC drivers in order to extract data from PowerSchool.
Note: Download drivers on the PC used to upload SWEET queries. Do not install on the PowerSchool server.

Solution: Instead of installing the full Oracle Client plus ODBC drivers, you can use Oracle "Instant Client" **plus** Instant Client ODBC supplement.

Note that you do NOT need a tnsnames.ora or a sqlnet.ora which is provided with the standard Oracle Client to access an Oracle db.

On the workstation that will run PowerSchool SWEET Tool:

- Download the Oracle 10.2.0.4 Instant Client files from the Oracle website.
  *Heads up - The website will prompt you to create a user account before downloading the software.

  http://www.oracle.com/technology/software/tech/oci/instantclient/index.html

- Scroll down to the 'Database' Heading and select 'Instant Client'.
- From the list of available downloads, click on Instant Client for Microsoft Windows (32-bit).
  You must click the **Accept** radio button in order to continue and be able to select the software you need to download.
- Scroll down to the section labeled Version 10.2.0.4 and click on the link for the
  Instant Client Package – Basic zip file.
- You will be directed to a login page where you must enter a userid and password in order to download this software. If you already have a userid and password for this Oracle website, enter it in the area provided. If not, click on Sign up now on the right-hand side of the screen. Then you will click on the Create an Oracle account and be prompted to enter your email address and password choice. Once you are in, enter your data in the form provided. *This is to simply register you as a user of the Oracle website.* After you have filled out the form and clicked the Confirm button, you will continue with the download.
- Save the files to a folder, and then **unzip/extract the Basic Instant Client FIRST**. All of the files are now in C:\instantclient_10_2. Note: the folder C:\instantclient_10_2 will automatically be created for you.

  > **All extracted files MUST be stored within the C:\instantclient_10_2 folder**

- Unzip/Extract the ODBC supplement SECOND. Put all of its files in C:\instantclient_10_2.
- Run C:\instantclient_10_2\odbc_install.exe

- Set the following SYSTEM (not user) environment variables:

Variable		Value
LD_LIBRARY_PATH	=	C:\instantclient_10_2
TNS_ADMIN	=	C:\instantclient_10_2
SQLPATH	=	C:\instantclient_10_2
PATH (This variable may already exist. If it does, double click on the existing Path variable.)	; append	**Append** the following onto the end of the existing PATH statement/variables **;C:\instantclient_10_2**

- Append C:\instantclient_10_2 to PATH

> Note*   (include c:\Windows\SysWow64\odbad32.exe if you are running instant client
> ver 10.2, 32-bit version on a 64 bit operating (win7.0)system.)

To set SYSTEM environment variables, go to Control Panel, System, Advanced, Environment Variables. System Variables are in the bottom portion of the Screen.

Select 'New' and cut/paste the variable name and value from info list above. For the PATH, if there are values already listed in that variable, add ';' (separator) then C:\instantclient_10_2. Click OK… Save … exit out of Control Panel.

- Create a new System DSN using the Oracle Instant Driver:
    - o For 32 bit Desktops: Start/Control Panel/Administrative Tools/Data Sources(ODBC)
    - o For 64 bit Desktops: the 32 bit drivers are found here (c:\Windows\SysWow64 and run odbcad32.exe) and the 64 bit drivers are found here (Control Panel/Administrative Tools/Data Sources(ODBC))
    - o Select System DSN
    - o Start/Control Panel/Administrative Tools/Data Sources(ODBC)
    - o System DSN
    - o **Add:**
        - ▪ Select "Oracle in instantclient_10_2" as the driver.
        - ▪ Data Source Name = whatever you want to call it (PSPRODDB is the SID)
        - ▪ Description = whatever you want to say
        - ▪ TNS Service name = **//192.168.50.108:1521/PSPRODDB** where the **192.168.50.108** would be the **internal IP address** of the Oracle Database server. **:1521** is the default PS setup for the PowerSchool installation.
        - ▪ Enter User ID = **PS** (database-user-ID-here). This is the oracle database user id for the PowerSchool Application.
- Test Connection

- o Enter the appropriate password for the PS user id, and click OK. You should see a **"Connection Successful"** dialog.
- o You are now ready to use this ODBC connection to access the Oracle tables for Tools that allow ODBC connections. (EX: local MS Access db).

> **If the connection times out, verify your server connection via PING.**
> **Start/run, cmd   - ping (space) [internal ip address]**

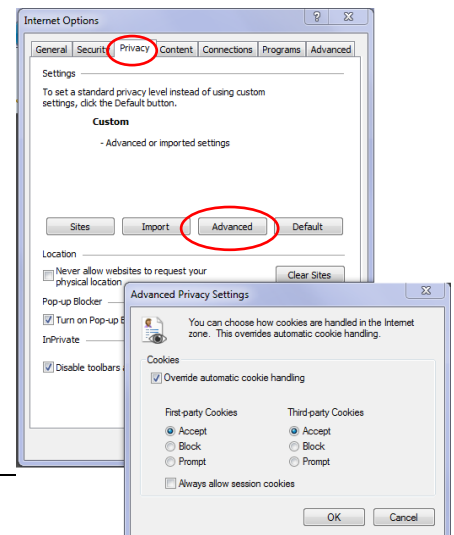**FYI Version 7.0 PowerSchool Consideration:**

A District who is on PS version 7 and is using the PSNavigator database userid to upload the Sweet queries, will encounter the error 'Error on Page' on the last step. In version 7 it appears that the PSNavigator ID does not have permissions to an Oracle stored process used in all of our Sweet queries. The current workaround is for districts to use the 'PS' database userid.

- • **Should you encounter a 'system error code 126' error when setting up the ODBC System DSN entry, do the following:**
   1. Search your computer hard drives for these 3 dll(s) and note the folder in which they are located.
      - • mfc71.dll
      - • msvcrt.dll
      - • msvcr71.dll
   2. COPY the dll(s) to your C:\instantclient_10_2 folder.
   3. If the dll does not exist on your machine, copy it from another machine that has it or download it from the internet, and place it in your C:\instantclient_10_2 folder.

- • **If ActiveX needs to be set in order for Sweet to run, set the following:**
   - o Internet Explorer -> Tools -> Settings ->Internet Options -> Security -> Custom level....
   - o Allow previously unused ActiveX controls to run without prompt - **Enable**
   - o Automatic prompting for ActiveX controls - **Enable**
   - o Download signed ActiveX controls - **Prompt**
   - o Download unsigned ActiveX controls - **Prompt**
   - o Initialize and script ActiveX controls not marked as safe for scripting - **Prompt**
   - o Run ActiveX controls and plug-ins - **Enable**

- o   Script ActiveX controls marked safe for scripting – **Enable**

- **Make necessary adjustments in Internet Explorer (IE),**
   set the following:
    - o   Internet Explorer -> settings -> Privacy -> Advanced….
    - o   Override Automatic Cookie Handling – **Check**
    - o   Allow session cookies – **UN-check**
    - o   Accept First Party Cookies – **Check**
    - o   Accept Third Party Cookies - **Check**

SWEET Tool setup to access your Oracle database:
 (switch to PowerSchool, not SASI**)**

SIxp™ Web Extract Export Tool
Run Query - Step 1

Help | Query List

PS_Teachers_QDC
Step 1 of 4 - Data Source

Next >>

Enter the information necessary to attach to the database. Contact your system administrator if you're unsure of any value.

Select type of SASIxp database | Oracle Server ▼ |

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dBase Information	**DB Server Information**
For dBase (*.dbf) only:	For DB Server only:
Path to dBase files:	Server — 10.86.53.22
SASI ONLY	Database — psproddb
	User — ps
C:\Program Fi	Password — **********
	Table Owner —

Please note!

We are using the 'PS' database user id and not the 'PSNavigator' database user id, because the PS id has access to the PS_Customfields package which is heavily used in the PS Sweet queries.

Select '**Oracle Server'** as the SASIxp data value;

Server:	enter the **IP address** of the Server where your **Oracle database** lives.
Database**:**	**PSPRODDB** (this is the name of the Oracle database
User:	**PS**
Password:	(enter the password for the **PS database user id**).
Table Owner:	keep this empty.